

# LUXO- $\sigma^{54}$ INTERACTIONS AND METHODS OF USE

## ABSTRACT

The invention relates to the identification and isolation of a novel sigma 54 ( $\sigma^{54}$ ) transcription factor from *Vibrio harveyi*. The invention further relates to the identification of  $\sigma^{54}$  interactions with LuxO. More particularly, the invention provides methods for identifying compounds that regulate bacterial cell growth and virulence by regulating LuxO- $\sigma^{54}$  activities.

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